

Fig. 1

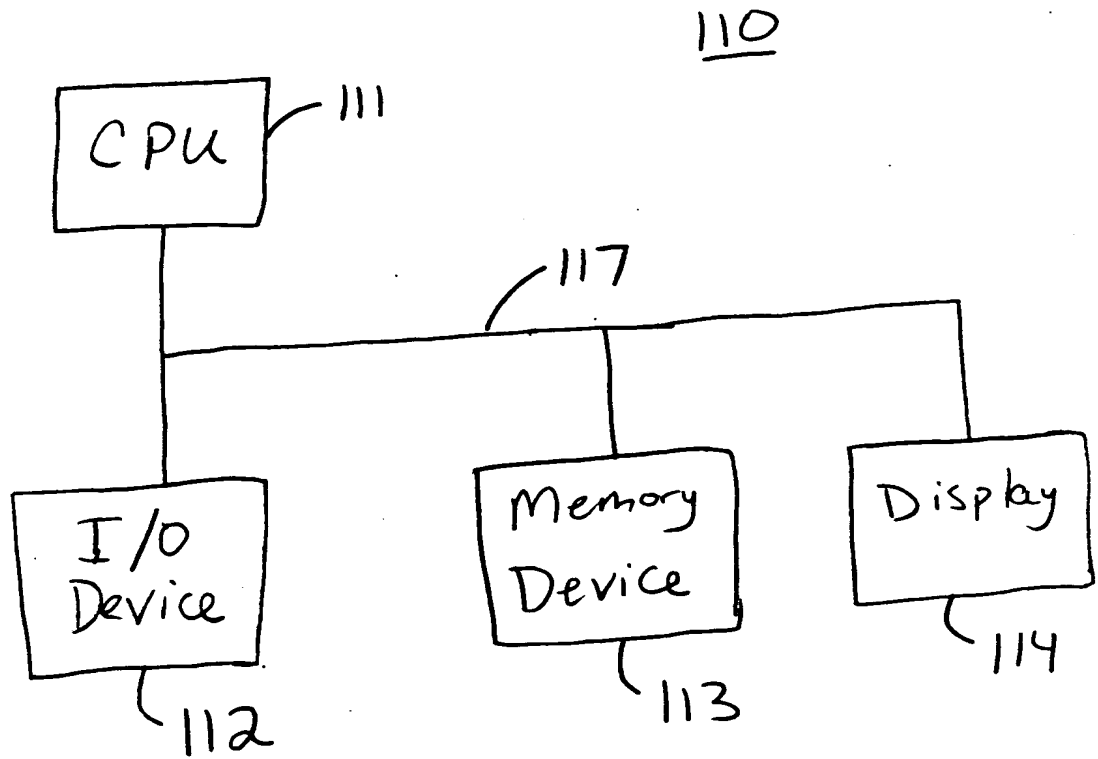


Fig. 2

10029831.122001
FOO22T" T88200T

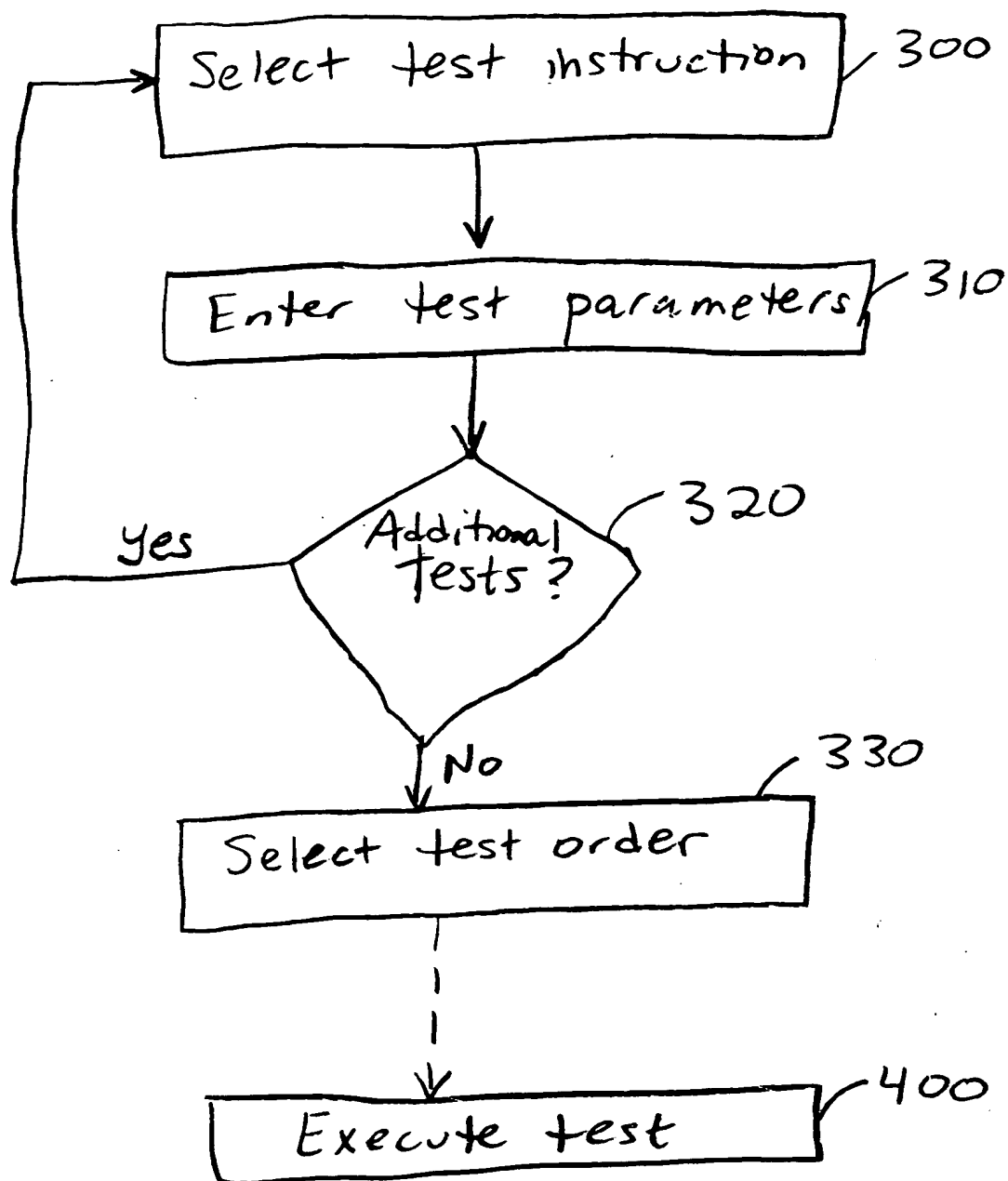


Fig. 3

10028831.1.122001

Sequence editor.vi

File Sequence Tests Help

Sequence Editor

Sequence under edit: Current sequence:

Test	Parameter
1 Ratio	TM= 40 C; Tm= 10 C; Tp= 1 :
2 Resistance	TC= 10.0 %; TM= 40 C; Tm= 10 C; Tr= 85 C; Tp= 4096 :
3 No load test	TV= 100 %; R1= 1 %/s; R2= 1 %/s; SR= 2.0 %; TM= 40 C; Tm= 10 C; Tr= 20 C; Cr= 1 :
4 Induced test	TV= 2.00 X; R1= 1 %/s; R2= 1 %/s; TD= 6000 C; TM= 40 C; Tm= 10 C:
5 Load test	TC= 100 %; R1= 31 %/s; R2= 81 %/s; SR= 2.0 %; TM= 40 C; Tm= 10 C; Tp= 0 T; Tr= 75 C:
6 Applied, High	TV= 1.00 %; R1= 20 %/s; R2= 1 %/s; TD= 60 s; TM= 40 C; Tm= 10 C:
7 Applied, Low	TV= 1.00 %; R1= 20 %/s; R2= 2 %/s; TD= 60 s; TM= 40 C; Tm= 10 C:
8 Megger, HL	TV= 5000 V; TD= 60 s; TM= 40 C; Tm= 10 C; M1= 15 s; M2= 60 s:
9 Megger, HG	TV= 5000 V; TD= 60 s; TM= 40 C; Tm= 10 C; M1= 15 s; M2= 60 s:
10 Megger, LG	TV= 2500 V; TD= 60 s; TM= 40 C; Tm= 10 C; M1= 15 s; M2= 60 s:
11 Resistance	TC= 10.0 %; TM= 40 C; Tm= 10 C; Tr= 75 C; Tp= 4096 :
12 Ratio	TM= 40 C; Tm= 10 C; Tp= 8192 :

☐ New sequence

☐ Open sequence

☐ Save sequence

☐ Exit editor

Test configuration

☐ No load test

☐ Induced overvoltage test

☐ Load test

☐ Applied on the high

☐ Applied on the low

☐ Megger high & low

☐ Megger high & ground

☐ Megger low & ground

☐ Winding resistance

☐ Voltage ratio

☐ Magnetizing current

Fig. 4

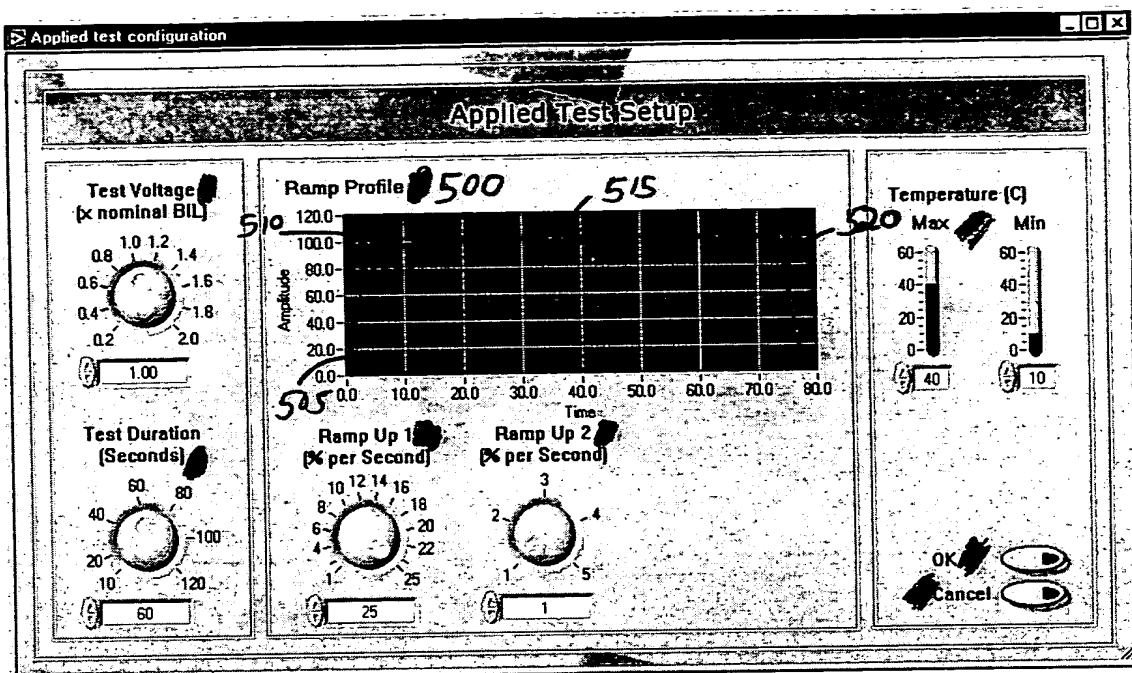


Fig. 5

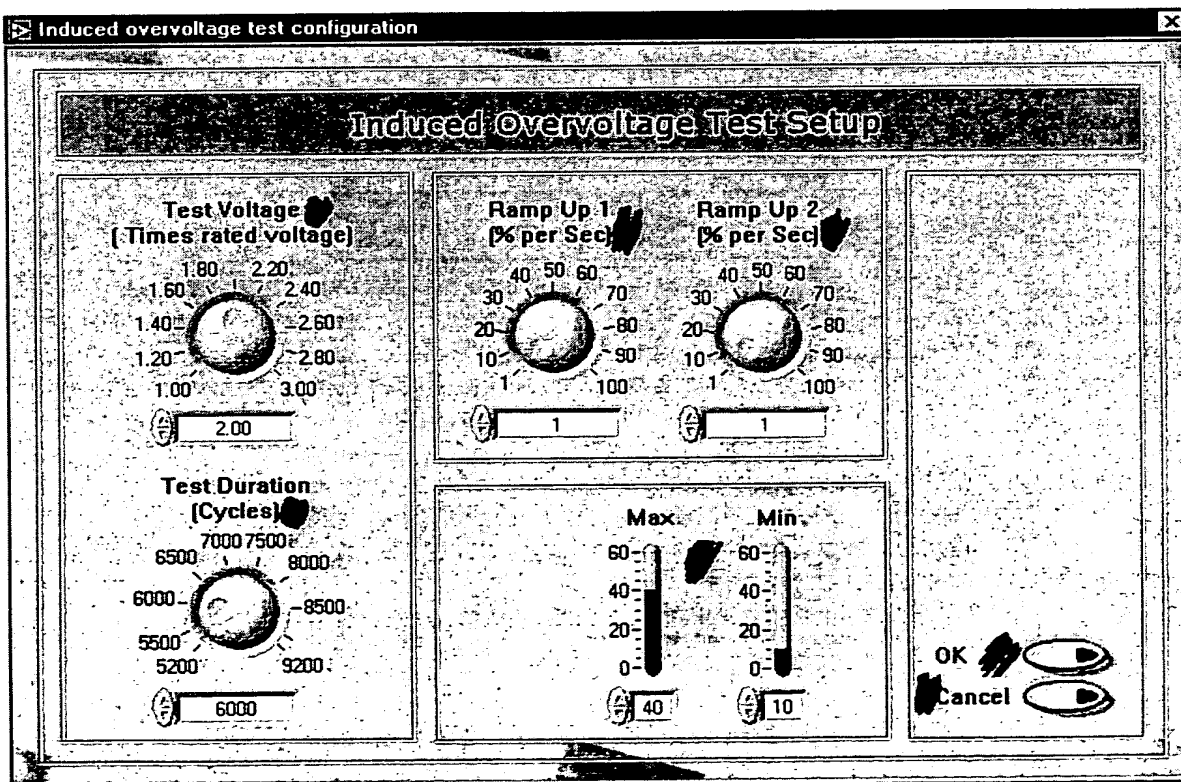


Fig. 6

10028831.122001

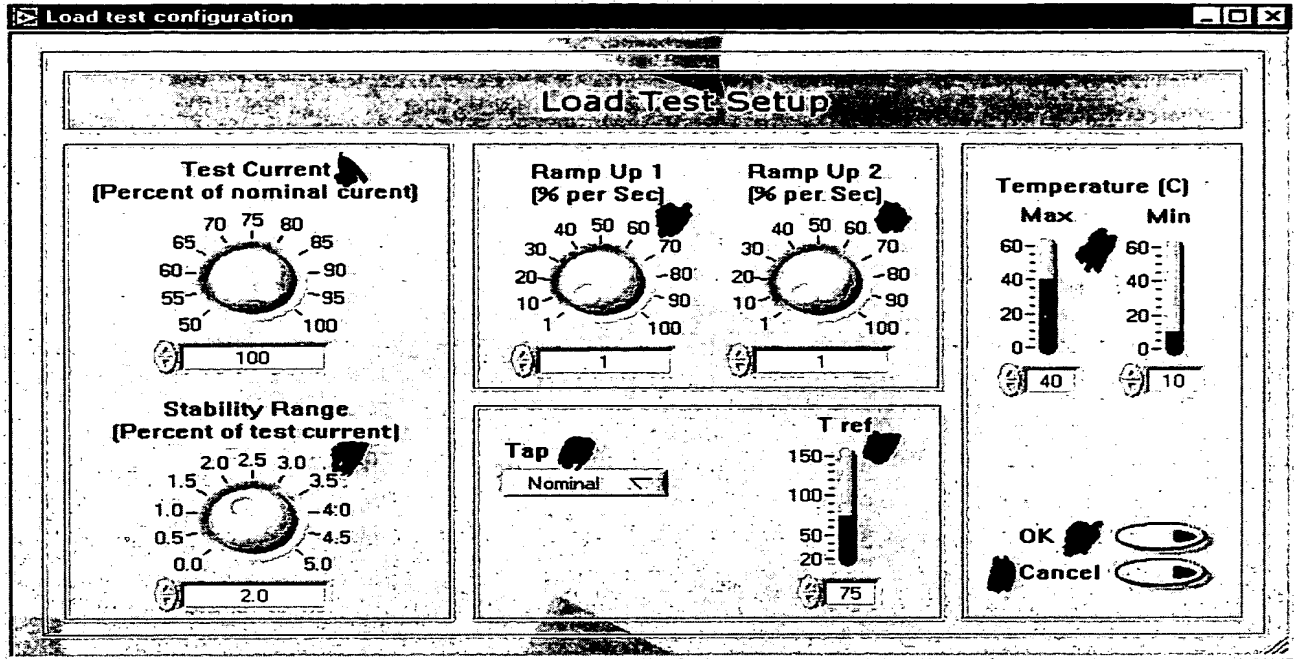


Fig. 7

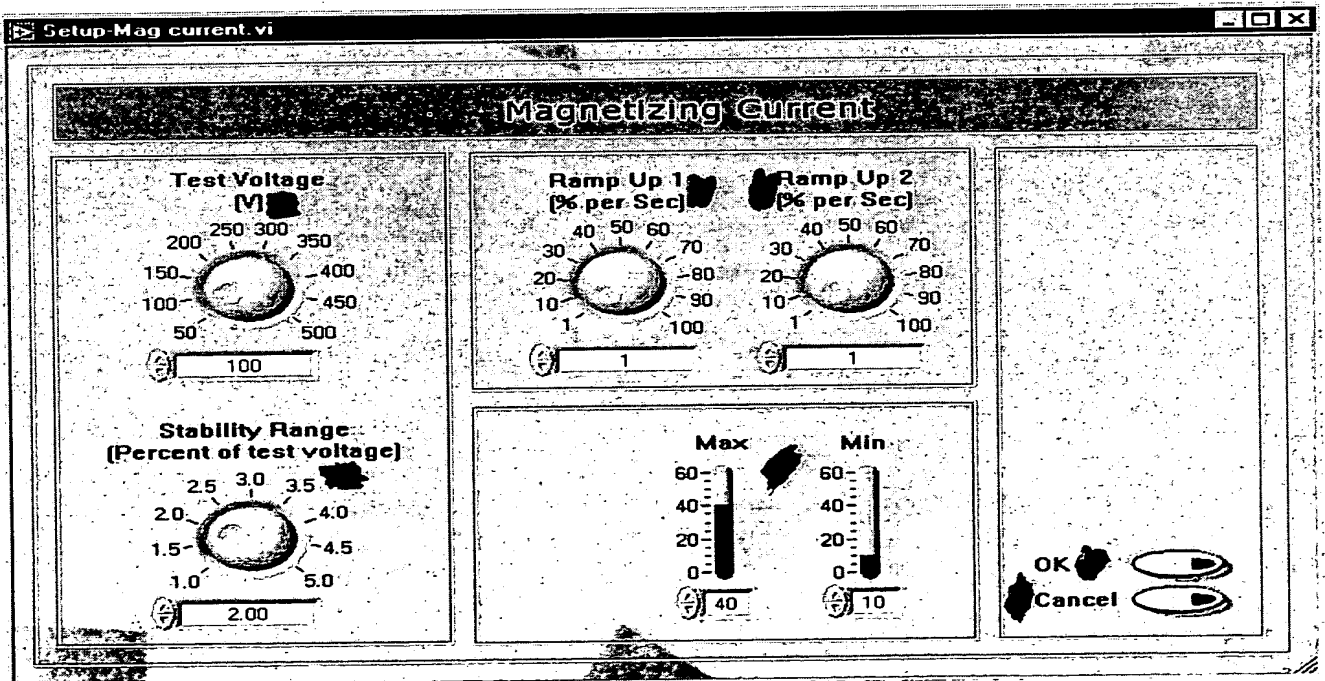


Fig. 8

1002221-100222001

Megger test configuration

Megger Test

Test Voltage (V)

2000 3000

1000 4000

0 5000

2500

Test Duration (Seconds)

100 150 200

50 250

0 300

60

Measurements

15 60

Time

0

Add

Delete

Temperature (C)

Max

60 40 20 0

40

Min

60 40 20 0

10

OK

Cancel

Fig. 9

No load test configuration

No Load Test Setup

Test Voltage (Percent of nominal voltage)

85 90 95 100 105 110

75

70

100

Stability Range (Percent of test voltage)

2.5 3.0 3.5 4.0 4.5 5.0

2.0 1.5 1.0

2.00

Ramp Up 1 (% per Sec)

30 40 50 60 70 80 90 100

1

Ramp Up 2 (% per Sec)

30 40 50 60 70 80 90 100

1

Temperature (C)

Max

60 40 20 0

40

Min

60 40 20 0

10

T ref

150 100 50 0

20

☒ Correct?

OK

Cancel

Fig. 10

100221 FEB 2001

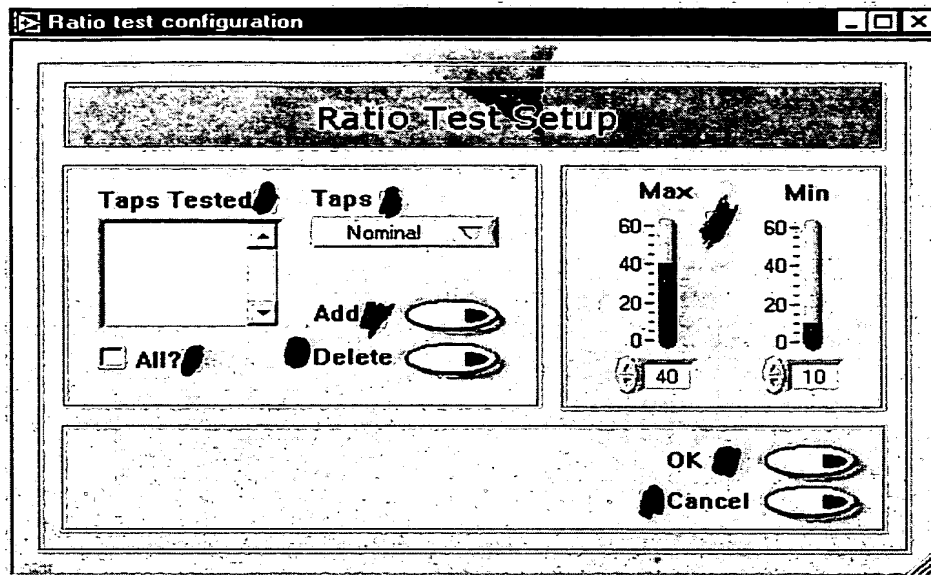


Fig. 11

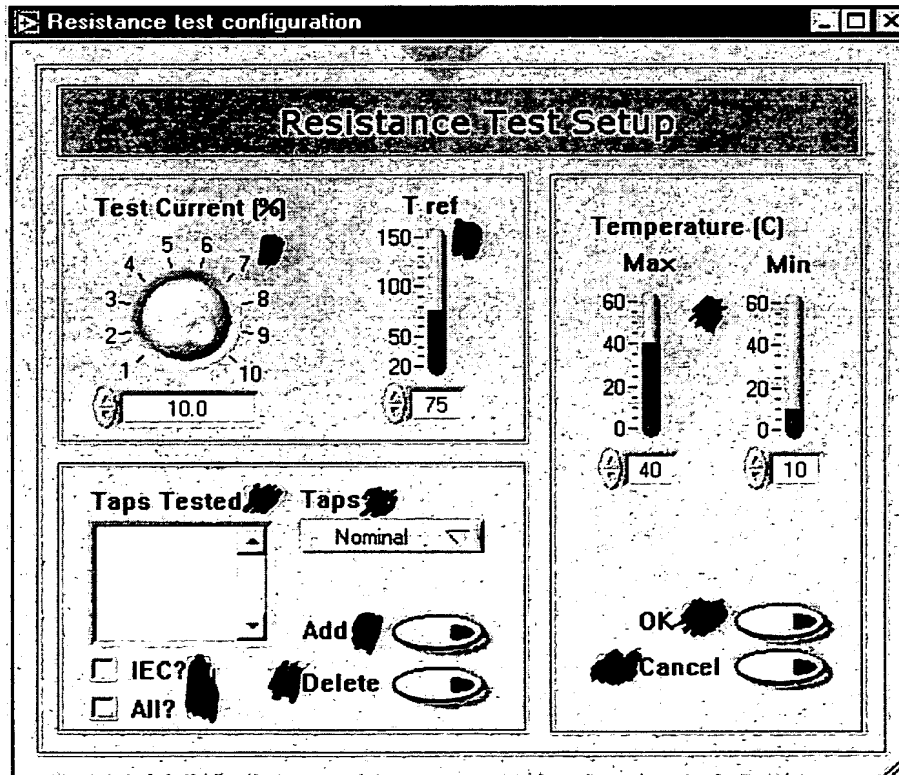


Fig. 12

1002831-122001

Automated Test

Hardware Status

CT Tap: ☒ All Open ☐ No Tap

PT Tap: ☒ All Open ☐ No Tap

Megger switch: ☒ ☐

Visible disconnect: ☒ ☐

Shorting switch: ☒ ☐

Resistance H switch: ☒ ☐

Resistance L switch: ☒ ☐

Output mode: 50 Hz TTS

Deck: 1 2 3

Sw. Network: En En En

Output energized: ☒

Emergency: ☒

Error: ☒

Test Results

Applied

Side	Vt	Status
1	380	ERR

Induced

Side	Vt	Status
1	380	ERR

Losses

Load loss

Vt	Imp	Status
336.0		ERR

No load loss

Vt	Imp	Status
254.1		ERR

At 100%
Total losses 0.00

Megger

Side	Vt	Status
HG	2000	ERR
HL	2500	ERR

Ratio

Tap	Status
1	

Resistance

Tap	Status
1	

Temperature

50
25
0

21.26

Tester: _____

Date: _____

Time: _____

Commands

☐ Start

☐ Stop

☐ Reset

☐ Change TUT

Screen

☒ Hardware status

☐ Details

☐ Exit

Test Sequence

#	Test	Parameters
1	Ratio	TM= 40 C; Tm= 10 C; TP= 30
2	Resistance	TC= 50 A; TM= 40 C; Tm= 10 C; TP= 40
3	Mag current	TV= 380 V; RU= 1 V/s; AT= 1; SR= 2.0 %; TM= 40 C; T
4	Load test	TC= 100 %; RU= 1 V/s; AT= 1; SR= 2.0 %; TM= 40 C; T
5	No load test	TV= 105 %; RU= 1 V/s; AT= 1; SR= 2.0 %; TM= 40 C; T
6	Megger, HL	TV= 2500 V; TD= 60 s; TM= 40 C; Tm= 10 C; M1= 15 s;
7	Megger, HG	TV= 2000 V; TD= 60 s; TM= 40 C; Tm= 10 C; M1= 15 s;

Fig. 13